

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/189,415D
Source: 1FW16
Date Processed by STIC: 2/14/06

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 02/14/2006

PATENT APPLICATION: US/09/189,415D

TIME: 14:58:45

Input Set : E:\UBCV0004.ST25.txt

Output Set: N:\CRF4\02142006\I189415D.raw

```

3 <110> APPLICANT: Finlay, Brett B.
4      Kenny, Brendant
5      DeVinney, Rebekah
6      Stein, Marcus
8 <120> TITLE OF INVENTION: HOST RECEPTOR FOR PATHOGENIC BACTERIA
10 <130> FILE REFERENCE: UBCV-0004
12 <140> CURRENT APPLICATION NUMBER: US 09/189,415D
13 <141> CURRENT FILING DATE: 1998-11-10
15 <150> PRIOR APPLICATION NUMBER: US 60/065,130
16 <151> PRIOR FILING DATE: 1997-11-12
18 <160> NUMBER OF SEQ ID NOS: 14
20 <170> SOFTWARE: PatentIn version 3.3
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 1920
24 <212> TYPE: DNA
25 <213> ORGANISM: Escherichia coli
27 <400> SEQUENCE: 1
28 cggctgcata ccattacgtc atagtaatat aaaggaacgt gtcaaatttc taaataaaaag      60
30 gatatatgta tgcctattgg taaccttgggt aataatgtaa atggcaatca ttttaattccc      120
32 cctgcgccgc cactaccttc acaaacagac gccgcggcac ggggaggaac tggatcatcta      180
34 attagctcta caggagcatt aggatctcgt tcattgtttt ctcccctgag aaattctatg      240
36 gctgattctg tcgattccag agatattcca ggacttccta caaacccatc gaggcttgct      300
38 gcagctacat ctgagacatg cttgcttgga ggatttgaag ttctccatga taaggggcca      360
40 cttgatattc tcaatacgca aattggaccc tctgcatttc gtgttgaagt gcaggcagat      420
42 ggtactcatg ccgctattgg agaaaaaaat ggtttggagg ttagcggtac attaatcct      480
44 caagaatgga gcagcttgca atctattgat actgagggta aaaacagatt tgtttttacc      540
46 gggggacgtg gcggtagtgg gcatccgatg gtcactgtcg catcagatat cgcggaagct      600
48 cgtacgaaaa tactggccaa attagaccca gacaatcatg gaggacgtca acccaaggac      660
50 gttgatacgc gttctgttgg tgttggcagc gcttcgggaa tagatgatgg cgttgtttagc      720
52 gaaaccata cttcaacaac aaattccagc gttcgcctcag atcctaaatt ctgggttttct      780
54 gtcggcgcaa ttgctgctgg tttagcggga ctggcgga caaggtattgc acaggcggtg      840
56 gctttgacac cgaaccgga tgatcctaca accaccgatc ctgatcaggc cgcaaatgct      900
58 gcagaaagtg caacaaaaga tcagttaacg caagaagcat tcaagaacc ctagaaccag      960
60 aaagttaaca tcgatgcgaa cggaaatgct attccgtctg gggaattaaa agatgatatt      1020
62 gttgagcaaa tagcacaaca agctaaagag gctgggtgagg tggccagaca gcaggctggt      1080
64 gaaagcaatg cacaggcgca gcagcgatat gaggatcagc atgccagacg tcaggaggaa      1140
66 ttacagcttt catcggttat tggttacggc ctgagcagtg cattgattgt tgctggggga      1200
68 attggtgctg gtgtaacgac tgcgctccat agacgaaatc agccggcaga acagacaact      1260
70 actacaacaa cacatacggg agtgacgcaa cagaccggag ggatacccca gcacaagggtg      1320
72 gcatgatgac cacaagagcg aagacgcttc tctgatagac gtgattcgca ggggagtgtt      1380
74 gcatcgacac actggtcaga ttctctatgc gaagtgggta atccatatgc tgaagtggg      1440
76 ggggctcgga atagtctatc ggctcatcag ccagaagagc atatttatga tgaggctcgt      1500
78 gcagatcctg gttatagcgt tattcagaat ttttcaggga gcggcccagt taccggaagg      1560

```

RAW SEQUENCE LISTING

DATE: 02/14/2006

PATENT APPLICATION: US/09/189,415D

TIME: 14:58:45

Input Set : E:\UBCV0004.ST25.txt

Output Set: N:\CRF4\02142006\I189415D.raw

```

80 ttaataggaa ctccagggca aggtatccaa agtacttatg cgcttctggc aaacagcggc 1620
82 ggattgcgtt taggtatggg aggattaacg agtgggtggc agacggcagt aagttctgta 1680
84 aatgccgcac caacgcaggg accagtacgt ttcgtttaaa tatactctgtg agtatttagt 1740
86 tgagggttggg gtgggggtggg ggggcgtttt actagcggtta atgtttcaga gaacaacggt 1800
88 gcagcatggg taactcttga acttctgtta ttataatcaa ttaagagaaa ttataatgtc 1860
90 atcaagatat gaacttttat tagatagggt tgcggaaaaa attgggtgtg gatctatttc 1920
93 <210> SEQ ID NO: 2
95 <400> SEQUENCE: 2
W--> 96 000
98 <210> SEQ ID NO: 3
99 <211> LENGTH: 1723
100 <212> TYPE: DNA
101 <213> ORGANISM: Escherichia coli
103 <400> SEQUENCE: 3
104 atgcctattg gtaaccttgg tcataatccc aatgtgaata attcaattcc tctgcacct 60
106 ccattacctt cacaaaccga cgggtgcagg gggcggtggtc agctcattaa ctctacgggg 120
108 ccggttgggat ctcggtgcgt atttacgcct gtaaggaatt ctatggctga ttctggcgac 180
110 aatcgtgccg gtgatgttcc tggacttcct gtaaaccgga tgcgcctggc ggcgtctgag 240
112 ataacactga atgatggatt tgaagttctt catgatcatg gtccgctcga tactcttaac 300
114 aggcagattg gctcttcggt atttcgagtt gaaactcagg aagatggtaa acatattgct 360
116 gtcggtcaga ggaatggtgt tgagacctct gttgttttaa gtgatcaaga gtacgctcgc 420
118 ttgcagtcca ttgatcctga aggtaaagac aaatttgtat ttactggagg ccgtgggtgg 480
120 gctgggcatg ctatggtcac cgttgcttca gatatcacgg aagcccgcga aaggatactg 540
122 gagctgttag agcccaaagg gaccggggag tccaaagggt ctggggagtc aaaaggcggt 600
124 ggggagttga gggagtcaaa tagcgggtgc gaaaacacca cagaaactca gacctcaacc 660
126 tcaacttcca gccttcgttc agatcctaaa ctttggttgg cgttggggac tgttgctaca 720
128 ggtctgatag ggttggcggc gacgggtatt gtacaggcgc ttgcattgac gccggagccg 780
130 gatagcccaa ccacgaccga cctgatgca gctgcaagtg caactgaaac tgcgacaaga 840
132 gatcagttaa cgaaagaagc gttccagaac ccagataatc aaaaagttaa tatcgatgag 900
134 ctcggaatag cgattccgtc aggggtattg aaagatgatg ttgttgcgaa tatagaagag 960
136 caggctaaag cagcaggcga agaggccaaa cagcaagcca ttgaaaataa tgctcaggcg 1020
138 caaaaaaat atgatgaaca acaagctaaa cgccaggagg agctgaaagt ttcatcgggg 1080
140 gctggctacg gtcttagtgg cgcattgatt cttggtgggg gaattggtgt tgcgctcacc 1140
142 gctgcgcttc atcgaaaaaa tcagccggtg gaacaaacaa caacaactac tactacaact 1200
144 acaactacaa gcgcacgtac ggtagagaat aagcctgcaa ataatacacc tgcacagggc 1260
146 aatgtagata cccctgggtc agaagatacc atggagagca gacgtagctc gatggctagc 1320
148 acctcgtcga ctttctttga cacttccagc atagggaccg tgcagaatcc gtatgctgat 1380
150 gttaaaacat cgctgcatga ttccgcaggt cgcacttcta attctaatac gtctgttcag 1440
152 aatatgggga atacagattc tgttgatat agcaccattc aacatcctcc ccgggatact 1500
154 actgataacg gcgcacgggt attaggaaat ccaagtgcgg ggattcaaag cacttatgcg 1560
156 cgtctggcgc taagtgggtg attacgccat gacatgggag gattaacggg ggggagtaat 1620
158 agcgtgtgta atacttcgaa taaccaccca gcgccgggat cccatcgttt cgtctaaata 1680
160 tatccataat cattttattt agagggaggg aggggggaag tct 1723
163 <210> SEQ ID NO: 4
165 <400> SEQUENCE: 4
W--> 166 000
168 <210> SEQ ID NO: 5
169 <211> LENGTH: 1460
170 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

DATE: 02/14/2006

PATENT APPLICATION: US/09/189,415D

TIME: 14:58:45

Input Set : E:\UBCV0004.ST25.txt

Output Set: N:\CRF4\02142006\I189415D.raw

```

171 <213> ORGANISM: Escherichia coli
173 <400> SEQUENCE: 5
174 aattctgttg ctgatgctgc tgattctcgt gccagtgata ttcccggact tcctacaaat      60
176 ccactgcgct ttgctgcgct cgaggtatct ttgcatgggtg cgcttgaagt tcttcatgat      120
178 aaaggggggc ttgatactct taactctgct attggatctt cgttattccg tgttgaaact      180
180 cgggatgatg gcagccatgt tgctatcggg caaaaaaatg gcctcgagac cactgttggt      240
182 ttaagtgagc aagagttttc tagcttacag tcccttgatc ctgaaggtaa aaacaaat      300
184 gtattttactg gaggcgcggg tggcccaggg catgctatgg tcacgggtgc ttcagatatt      360
186 gccgaagccc gtcagaggat aatagataaa ttagaaccaa aggatacaaa ggagacgaag      420
188 gagccagggg atccaaatag tggcgaggga aaaatcattg aaattcatac ctcaacctca      480
190 acttctagcc tccgtgcaga tcctaaactt tggttgtcat tggggactat tgctgcagg      540
192 ctgataggga tggctgcgac ggggattgca caggctgttg cgttgactcc agagccggat      600
194 gacccaatca ctaccgacct tgatgctgca gcaaacacag ctgaagcagc ggcaaaagat      660
196 cagttaacga aagaagcatt ccagaaccca gataaccaga aagttaatat cgatgagaac      720
198 ggaaatgcaa ttcggtccgg ggaactaaaa gatgatgttg ttgcgcaaat agcagaacaa      780
200 gctaaagcgg cgggtgaaca ggccagacag gaagctattg aaagtaattc tcaggcgcag      840
202 caaaaatatg atgaacagca tgctaaacgc gaacaggaaa tgtctctttc atcggggggt      900
204 ggctacggta ttagtggtgc gctgattctt ggcgggggaa ttggtgccgg tgttactgct      960
206 gctcttcacg gaaaaacca accggcagaa caaacaatca ctacacgtac ggtagtcgat      1020
208 aatcagccta cgaataacgc atctgcgcag ggcaatactg acacaagtgg gccagaagag      1080
210 tccccggcga gcagacgtaa ttcgaatgcc agcctcgcat cgaacgggtc tgacacctcc      1140
212 agcacgggca cggtagagaa tccgtatgct gacgttggaa tgcccagaaa tgattcactg      1200
214 gctcgcattt cagaggaacc tatttatgat gaggtcgcgtg cagatcctaa ttatagcgct      1260
216 attcaacatt tttcagggaa cagcccagtt accggaagggt tagtggggaa cccagggcaa      1320
218 ggtatccaaa gtacttatgc gcttctggca agcagcggcg gattgcgttt aggtatggga      1380
220 ggattaacgg ggggtggcga gagcgcagta agtactgcc aatgccgcacc aacgccggga      1440
222 cccgcacgtt tcgtttaaat                                     1460
225 <210> SEQ ID NO: 6
227 <400> SEQUENCE: 6
W--> 228 000
230 <210> SEQ ID NO: 7
231 <211> LENGTH: 30
232 <212> TYPE: PRT
233 <213> ORGANISM: Escherichia coli
235 <400> SEQUENCE: 7
237 Pro Ile Gly Asn Leu Gly Asn Asn Val Asn Gly Asn His Leu Ile Pro
238 1             5             10             15
241 Pro Ala Pro Pro Leu Pro Ser Gln Thr Asp Gly Ala Ala Arg
242             20             25             30
245 <210> SEQ ID NO: 8
246 <211> LENGTH: 26
247 <212> TYPE: DNA
248 <213> ORGANISM: Artificial
250 <220> FEATURE:
251 <223> OTHER INFORMATION: Primer
253 <400> SEQUENCE: 8
254 aaagtcgaca agaacctgag aaccag                                     26
257 <210> SEQ ID NO: 9
258 <211> LENGTH: 30

```

RAW SEQUENCE LISTING

DATE: 02/14/2006

PATENT APPLICATION: US/09/189,415D

TIME: 14:58:45

Input Set : E:\UBCV0004.ST25.txt

Output Set: N:\CRF4\02142006\I189415D.raw

259 <212> TYPE: DNA
 260 <213> ORGANISM: Artificial
 262 <220> FEATURE:
 263 <223> OTHER INFORMATION: Primer
 265 <400> SEQUENCE: 9
 266 ttgtgtcgact tatgtttgtg aaggtagtgg
 269 <210> SEQ ID NO: 10
 270 <211> LENGTH: 549
 271 <212> TYPE: PRT
 272 <213> ORGANISM: Escherichia coli
 274 <400> SEQUENCE: 10
 276 Met Pro Ile Gly Asn Leu Gly Asn Asn Val Asn Gly Asn His Leu Ile
 277 1 5 10 15
 280 Pro Pro Ala Pro Pro Leu Pro Ser Gln Thr Asp Gly Ala Ala Arg Gly
 281 20 25 30
 284 Gly Thr Gly His Leu Ile Ser Ser Thr Gly Ala Leu Gly Ser Arg Ser
 285 35 40 45
 288 Leu Phe Ser Pro Leu Arg Asn Ser Met Ala Asp Ser Val Asp Ser Arg
 289 50 55 60
 292 Asp Ile Pro Gly Leu Pro Thr Asn Pro Ser Arg Leu Ala Ala Ala Thr
 293 65 70 75 80
 296 Ser Glu Thr Cys Leu Leu Gly Gly Phe Glu Val Leu His Asp Lys Gly
 297 85 90 95
 300 Pro Leu Asp Ile Leu Asn Thr Gln Ile Gly Pro Ser Ala Phe Arg Val
 301 100 105 110
 304 Glu Val Gln Ala Asp Gly Thr His Ala Ala Ile Gly Glu Lys Asn Gly
 305 115 120 125
 308 Leu Glu Val Ser Val Thr Leu Ser Pro Gln Glu Trp Ser Ser Leu Gln
 309 130 135 140
 312 Ser Ile Asp Thr Glu Gly Lys Asn Arg Phe Val Phe Thr Gly Gly Arg
 313 145 150 155 160
 316 Gly Gly Ser Gly His Pro Met Val Thr Val Ala Ser Asp Ile Ala Glu
 317 165 170 175
 320 Ala Arg Thr Lys Ile Leu Ala Lys Leu Asp Pro Asp Asn His Gly Gly
 321 180 185 190
 324 Arg Gln Pro Lys Asp Val Asp Thr Arg Ser Val Gly Val Gly Ser Ala
 325 195 200 205
 328 Ser Gly Ile Asp Asp Gly Val Val Ser Glu Thr His Thr Ser Thr Thr
 329 210 215 220
 332 Asn Ser Ser Val Arg Ser Asp Pro Lys Phe Trp Val Ser Val Gly Ala
 333 225 230 235 240
 336 Ile Ala Ala Gly Leu Ala Gly Leu Ala Ala Thr Gly Ile Ala Gln Ala
 337 245 250 255
 340 Leu Ala Leu Thr Pro Glu Pro Asp Asp Pro Thr Thr Thr Asp Pro Asp
 341 260 265 270
 344 Gln Ala Ala Asn Ala Ala Glu Ser Ala Thr Lys Asp Gln Leu Thr Gln
 345 275 280 285
 348 Glu Ala Phe Lys Asn Pro Glu Asn Gln Lys Val Asn Ile Asp Ala Asn
 349 290 295 300

30

RAW SEQUENCE LISTING

DATE: 02/14/2006

PATENT APPLICATION: US/09/189,415D

TIME: 14:58:45

Input Set : E:\UBCV0004.ST25.txt

Output Set: N:\CRF4\02142006\I189415D.raw

```

352 Gly Asn Ala Ile Pro Ser Gly Glu Leu Lys Asp Asp Ile Val Glu Gln
353 305          310          315          320
356 Ile Ala Gln Gln Ala Lys Glu Ala Gly Glu Val Ala Arg Gln Gln Ala
357          325          330          335
360 Val Glu Ser Asn Ala Gln Ala Gln Gln Arg Tyr Glu Asp Gln His Ala
361          340          345          350
364 Arg Arg Gln Glu Glu Leu Gln Leu Ser Ser Gly Ile Gly Tyr Gly Leu
365          355          360          365
368 Ser Ser Ala Leu Ile Val Ala Gly Gly Ile Gly Ala Gly Val Thr Thr
369          370          375          380
372 Ala Leu His Arg Arg Asn Gln Pro Ala Glu Gln Thr Thr Thr Thr
373 385          390          395          400
376 Thr His Thr Val Val Gln Gln Gln Thr Gly Gly Ile Pro Gln His Lys
377          405          410          415
380 Val Ala Leu Met Pro Gln Glu Arg Arg Arg Phe Ser Asp Arg Arg Asp
381          420          425          430
384 Ser Gln Gly Ser Val Ala Ser Thr His Trp Ser Asp Ser Ser Ser Glu
385          435          440          445
388 Val Val Asn Pro Tyr Ala Glu Val Gly Gly Ala Arg Asn Ser Leu Ser
389          450          455          460
392 Ala His Gln Pro Glu Glu His Ile Tyr Asp Glu Val Ala Ala Asp Pro
393 465          470          475          480
396 Gly Tyr Ser Val Ile Gln Asn Phe Ser Gly Ser Gly Pro Val Thr Gly
397          485          490          495
400 Arg Leu Ile Gly Thr Pro Gly Gln Gly Ile Gln Ser Thr Tyr Ala Leu
401          500          505          510
404 Leu Ala Asn Ser Gly Gly Leu Arg Leu Gly Met Gly Gly Leu Thr Ser
405          515          520          525
408 Gly Gly Glu Thr Ala Val Ser Ser Val Asn Ala Ala Pro Thr Gln Gly
409          530          535          540
412 Pro Val Arg Phe Val
413 545
416 <210> SEQ ID NO: 11
417 <211> LENGTH: 558
418 <212> TYPE: PRT
419 <213> ORGANISM: Escherichia coli
421 <400> SEQUENCE: 11
423 Met Pro Ile Gly Asn Leu Gly His Asn Pro Asn Val Asn Asn Ser Ile
424 1          5          10          15
427 Pro Pro Ala Pro Pro Leu Pro Ser Gln Thr Asp Gly Ala Gly Gly Arg
428          20          25          30
431 Gly Gln Leu Ile Asn Ser Thr Gly Pro Leu Gly Ser Arg Ala Leu Phe
432          35          40          45
435 Thr Pro Val Arg Asn Ser Met Ala Asp Ser Gly Asp Asn Arg Ala Ser
436          50          55          60
439 Asp Val Pro Gly Leu Pro Val Asn Pro Met Arg Leu Ala Ala Ser Glu
440 65          70          75          80
443 Ile Thr Leu Asn Asp Gly Phe Glu Val Leu His Asp His Gly Pro Leu
444          85          90          95

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/14/2006
PATENT APPLICATION: US/09/189,415D TIME: 14:58:46

Input Set : E:\UBCV0004.ST25.txt
Output Set: N:\CRF4\02142006\I189415D.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:8,9

VERIFICATION SUMMARY

DATE: 02/14/2006

PATENT APPLICATION: US/09/189,415D

TIME: 14:58:46

Input Set : E:\UBCV0004.ST25.txt

Output Set: N:\CRF4\02142006\I189415D.raw

L:96 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (2) SEQUENCE:
L:166 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (4) SEQUENCE:
L:228 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (6) SEQUENCE: